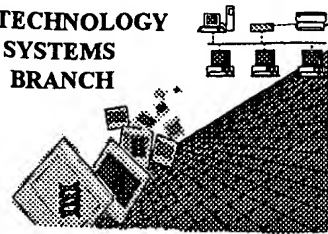


## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



1635  
RECEIVED

FEB 19 2003

TECH CENTER 1600/25

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/699,667C  
Source: 1600  
Date Processed by STIC: 2/10/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual- ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003

TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt

Output Set: N:\CRF4\02102003\I699667C.raw

3 <110> APPLICANT: Perreault, Jean-Pierre  
 4 Ananvoranich, Sirinart  
 5 Lafontaine, Daniel  
 6 Universite de Sherbrooke  
 8 <120> TITLE OF INVENTION: Nucleic Acid Enzyme for RNA Cleavage  
 10 <130> FILE REFERENCE: 77473-5, 258/235  
 12 <140> CURRENT APPLICATION NUMBER: US/09/699,667C  
 13 <141> CURRENT FILING DATE: 2001-10-30  
 15 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00391  
 16 <151> PRIOR FILING DATE: 1999-04-29  
 18 <160> NUMBER OF SEQ ID NOS: 60  
 20 <170> SOFTWARE: PatentIn Ver. 2.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 11  
 24 <212> TYPE: RNA *DNA*  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide  
 29 sequence comprised of ribonucleotides or a  
 30 combination of ribonucleotides and  
 31 deoxyribonucleotides  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: misc\_feature  
 35 <222> LOCATION: (1) ... (11)  
 36 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other  
 38 <400> SEQUENCE: 1

Does Not Comply  
 Corrected Diskette Needed

*pp 1-3*

*If the sequence is a  
 combination DNA/RNA, the  
 <212> response must be DNA.*

*See 1.823*

*Sequence  
 Rules*

W--> 39 *nnrhgnnhnn n*

11

41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 11  
 43 <212> TYPE: RNA *DNA*  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide  
 48 sequence comprised of ribonucleotides or a  
 49 combination of ribonucleotides and  
 50 deoxyribonucleotides  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: misc\_feature  
 54 <222> LOCATION: (6) ... (11)  
 55 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other  
 57 <400> SEQUENCE: 2

W--> 58 *rrrhgnnhnn n*

11

60 &lt;210&gt; SEQ ID NO: 3

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003

TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt

Output Set: N:\CRF4\02102003\I699667C.raw

```

61 <211> LENGTH: 11
62 <212> TYPE: RNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
67     sequence comprised of ribonucleotides or a
68     combination of ribonucleotides and
69     deoxyribonucleotides
71 <220> FEATURE:
72 <221> NAME/KEY: misc_feature
73 <222> LOCATION: (6) ... (11)
74 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
76 <400> SEQUENCE: 3
W--> 77 gggcgnnunn n 11
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 11
81 <212> TYPE: RNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
86     sequence comprised of ribonucleotides or a
87     combination of ribonucleotides and
88     deoxyribonucleotides
90 <220> FEATURE:
91 <221> NAME/KEY: misc_feature
92 <222> LOCATION: (6) ... (11)
93 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
95 <400> SEQUENCE: 4
W--> 96 gggcgnnhnn n 11
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 11
100 <212> TYPE: RNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
105     sequence comprised of ribonucleotides or a
106     combination of ribonucleotides and
107     deoxyribonucleotides
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (6) ... (11)
112 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
114 <400> SEQUENCE: 5
W--> 115 gggugnnunn n 11
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 12
119 <212> TYPE: RNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:

```

P.3

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003

TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt

Output Set: N:\CRF4\02102003\I699667C.raw

```

123 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
124     sequence comprised of ribonucleotides or a
125     combination of ribonucleotides and
126     deoxyribonucleotides
128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: (6) ... (12)
131 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
133 <400> SEQUENCE: 6
W--> 134 gggugnnncnn nn 12
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 11
138 <212> TYPE: RNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
143     sequence comprised of ribonucleotides or a
144     combination of ribonucleotides and
145     deoxyribonucleotides
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (6) ... (11)
150 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
152 <400> SEQUENCE: 7
W--> 153 aaacgnnunnn n 11
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 11
157 <212> TYPE: RNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
162     sequence comprised of ribonucleotides or a
163     combination of ribonucleotides and
164     deoxyribonucleotides
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (6) ... (11)
169 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
171 <400> SEQUENCE: 8
W--> 172 yhrhgnnhnn n 11
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 11
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
181     sequence
183 <400> SEQUENCE: 9
184 gggcgggucg g 11

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003

TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt

Output Set: N:\CRF4\02102003\I699667C.raw

186 <210> SEQ ID NO: 10  
187 <211> LENGTH: 10  
188 <212> TYPE: RNA  
189 <213> ORGANISM: Artificial Sequence  
191 <220> FEATURE:  
192 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
193 sequence  
195 <400> SEQUENCE: 10  
196 gggcgggucg 10  
198 <210> SEQ ID NO: 11  
199 <211> LENGTH: 11  
200 <212> TYPE: RNA  
201 <213> ORGANISM: Artificial Sequence  
203 <220> FEATURE:  
204 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
205 sequence  
207 <400> SEQUENCE: 11  
208 gggcaggucg g 11  
210 <210> SEQ ID NO: 12  
211 <211> LENGTH: 11  
212 <212> TYPE: RNA  
213 <213> ORGANISM: Artificial Sequence  
215 <220> FEATURE:  
216 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
217 sequence  
219 <400> SEQUENCE: 12  
220 gggccggucg g 11  
222 <210> SEQ ID NO: 13  
223 <211> LENGTH: 11  
224 <212> TYPE: RNA  
225 <213> ORGANISM: Artificial Sequence  
227 <220> FEATURE:  
228 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
229 sequence  
231 <400> SEQUENCE: 13  
232 gggcgagucg g 11  
234 <210> SEQ ID NO: 14  
235 <211> LENGTH: 11  
236 <212> TYPE: RNA  
237 <213> ORGANISM: Artificial Sequence  
239 <220> FEATURE:  
240 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
241 sequence  
243 <400> SEQUENCE: 14  
244 gggcgugucg g 11  
246 <210> SEQ ID NO: 15  
247 <211> LENGTH: 11  
248 <212> TYPE: RNA  
249 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/699,667C

DATE: 02/10/2003

TIME: 14:31:38

Input Set : A:\85761-25 Seq 19-12-02 v2.txt

Output Set: N:\CRF4\02102003\I699667C.raw

251 <220> FEATURE:  
252 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
253 sequence  
255 <400> SEQUENCE: 15  
256 gggcggaucg g 11  
258 <210> SEQ ID NO: 16  
259 <211> LENGTH: 11  
260 <212> TYPE: RNA  
261 <213> ORGANISM: Artificial Sequence  
263 <220> FEATURE:  
264 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
265 sequence  
267 <400> SEQUENCE: 16  
268 gggcgguucg g 11  
270 <210> SEQ ID NO: 17  
271 <211> LENGTH: 11  
272 <212> TYPE: RNA  
273 <213> ORGANISM: Artificial Sequence  
275 <220> FEATURE:  
276 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
277 sequence  
279 <400> SEQUENCE: 17  
280 gggcgggccg g 11  
282 <210> SEQ ID NO: 18  
283 <211> LENGTH: 11  
284 <212> TYPE: RNA  
285 <213> ORGANISM: Artificial Sequence  
287 <220> FEATURE:  
288 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
289 sequence  
291 <400> SEQUENCE: 18  
292 gggcggggcg g 11  
294 <210> SEQ ID NO: 19  
295 <211> LENGTH: 11  
296 <212> TYPE: RNA  
297 <213> ORGANISM: Artificial Sequence  
299 <220> FEATURE:  
300 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
301 sequence  
303 <400> SEQUENCE: 19  
304 gggcgguag g 11  
306 <210> SEQ ID NO: 20  
307 <211> LENGTH: 11  
308 <212> TYPE: RNA  
309 <213> ORGANISM: Artificial Sequence  
311 <220> FEATURE:  
312 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA  
313 sequence  
315 <400> SEQUENCE: 20

**RAW SEQUENCE LISTING ERROR SUMMARY**  
**PATENT APPLICATION: US/09/699,667C**

DATE: 02/10/2003  
 TIME: 14:31:39

Input Set : A:\85761-25 Seq 19-12-02 v2.txt  
 Output Set: N:\CRF4\02102003\I699667C.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~1,2,6,7,9,10,11~~  
 Seq#:2; N Pos. ~~6,7,9,10,11~~  
 Seq#:3; N Pos. ~~6,7,9,10,11~~  
 Seq#:4; N Pos. ~~6,7,9,10,11~~  
 Seq#:5; N Pos. ~~6,7,9,10,11~~  
 Seq#:6; N Pos. ~~6,7,9,10,11,12~~  
 Seq#:7; N Pos. ~~6,7,9,10,11~~  
 Seq#:8; N Pos. ~~6,7,9,10,11~~

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,19,20,21,22,23,24  
 Seq#:1; Line(s) 25,26,27,28,29,30,33,36,37,38,39,40,41  
 Seq#:2; Line(s) 42,43,46,47,48,49,52,55,56,57,58,59,60  
 Seq#:3; Line(s) 61,62,65,66,67,68,71,74,75,76,77,78,79  
 Seq#:4; Line(s) 80,81,84,85,86,87,89,90,93,94,95,96,97,98  
 Seq#:5; Line(s) 99,100,101,103,104,105,106,107,109,112,113,114,115,116,117  
 Seq#:6; Line(s) 118,119,120,122,123,124,125,126,128,131,132,133,134,135,136  
 Seq#:7; Line(s) 137,138,141,142,143,144,147,150,151,152,153,154,155  
 Seq#:8; Line(s) 156,157,158,160,161,162,163,164,166,169,170,171,172,173,174  
 Seq#:9; Line(s) 175,176,177,178,179,180,181,182,183,184,185,186  
 Seq#:10; Line(s) 187,188,189,190,191,192,193,194,195,196,197,198  
 Seq#:11; Line(s) 199,200,201,202,203,204,205,206,207,208,209,210  
 Seq#:12; Line(s) 211,212,213,214,215,216,217,218,219,220,221,222  
 Seq#:13; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234  
 Seq#:14; Line(s) 235,236,237,238,239,240,241,242,243,244,245,246  
 Seq#:15; Line(s) 247,248,249,250,251,252,253,254,255,256,257,258  
 Seq#:16; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270  
 Seq#:17; Line(s) 271,272,273,274,275,276,277,278,279,280,281,282  
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 Seq#:19; Line(s) 295,296,297,298,299,300,301,302,303,304,305,306  
 Seq#:20; Line(s) 307,308,309,310,311,312,313,314,315,316,317,318  
 Seq#:21; Line(s) 319,320,321,322,323,324,325,326,327,328,329,330  
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 Seq#:23; Line(s) 343,344,345,346,347,348,349,350,351,352,353,354  
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 Seq#:26; Line(s) 379,380,381,382,383,384,385,386,387,388,389,390  
 Seq#:27; Line(s) 391,392,393,394,395,396,397,398,399,400,401,402  
 Seq#:28; Line(s) 403,404,405,406,407,408,409,410,411,412,413,414  
 Seq#:29; Line(s) 415,416,417,418,419,420,421,422,423,424,425,426  
 Seq#:30; Line(s) 427,428,429,430,431,432,433,434,435,436,437,438